

FIG. 6

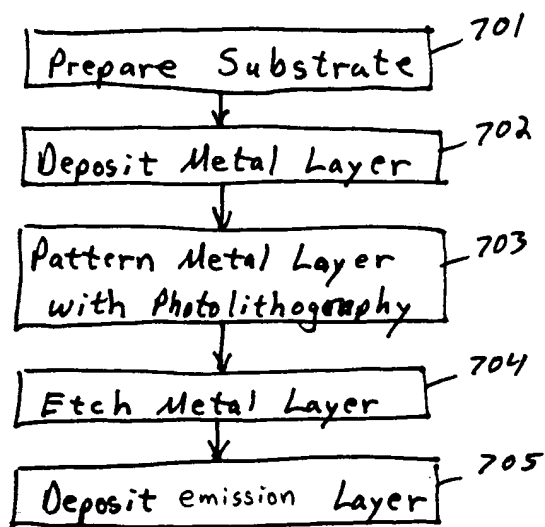


FIG. 7

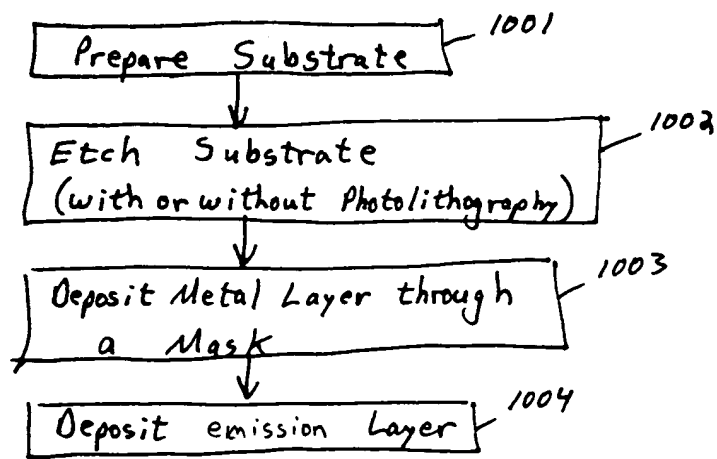


FIG. 10

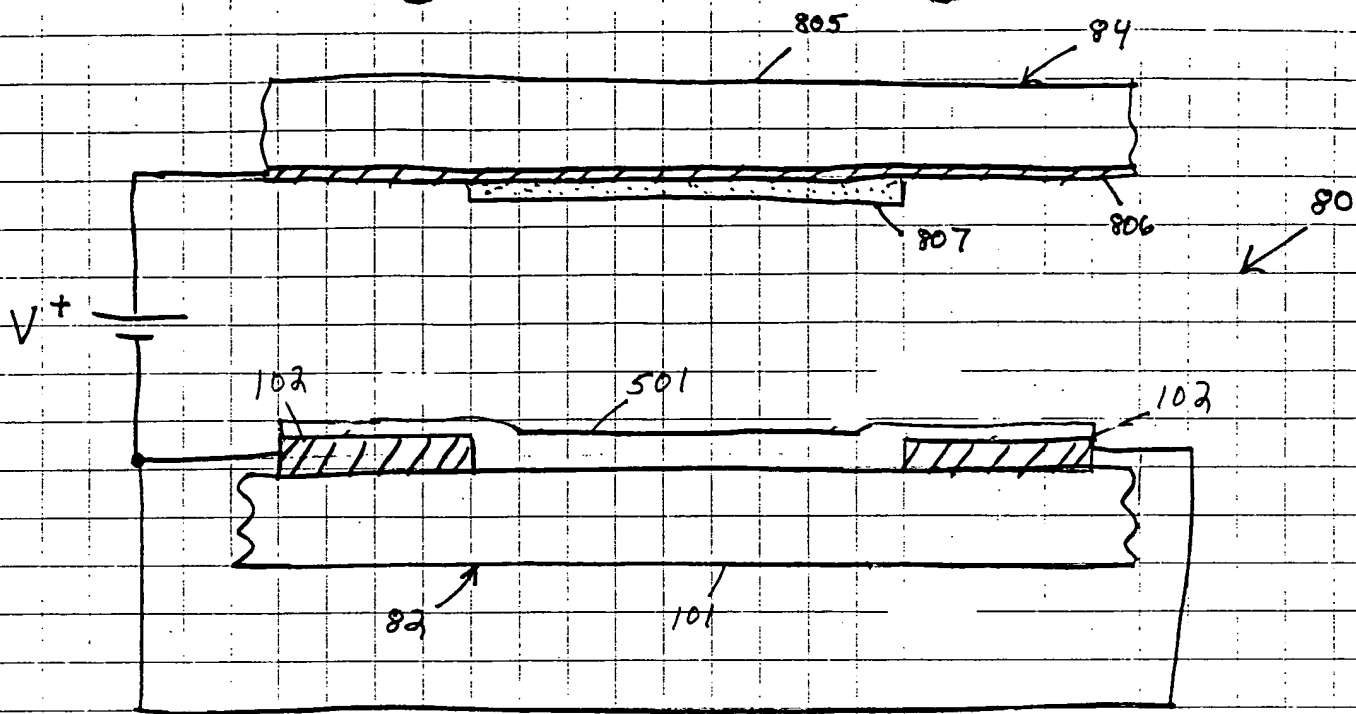


FIG. 8

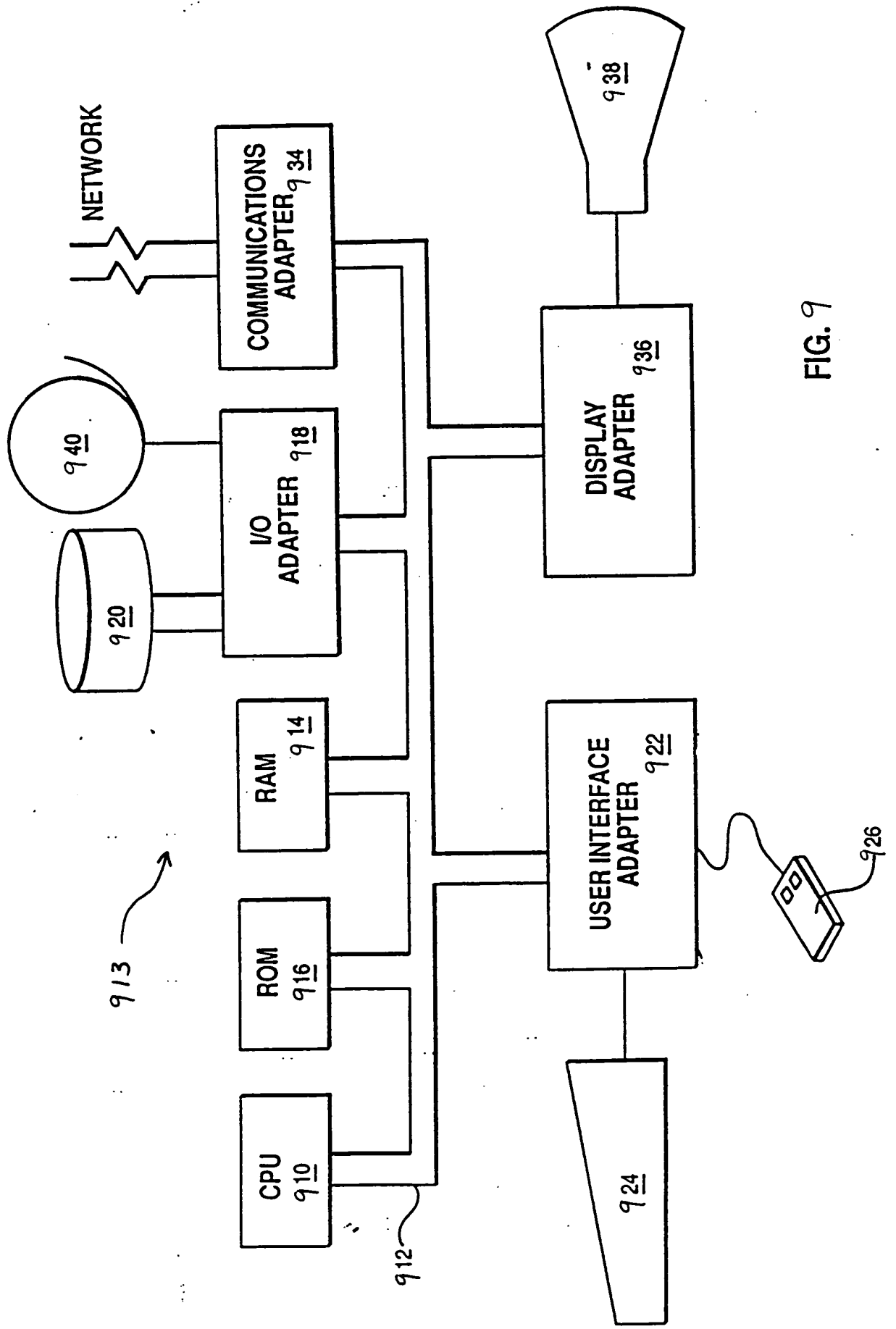


FIG. 9

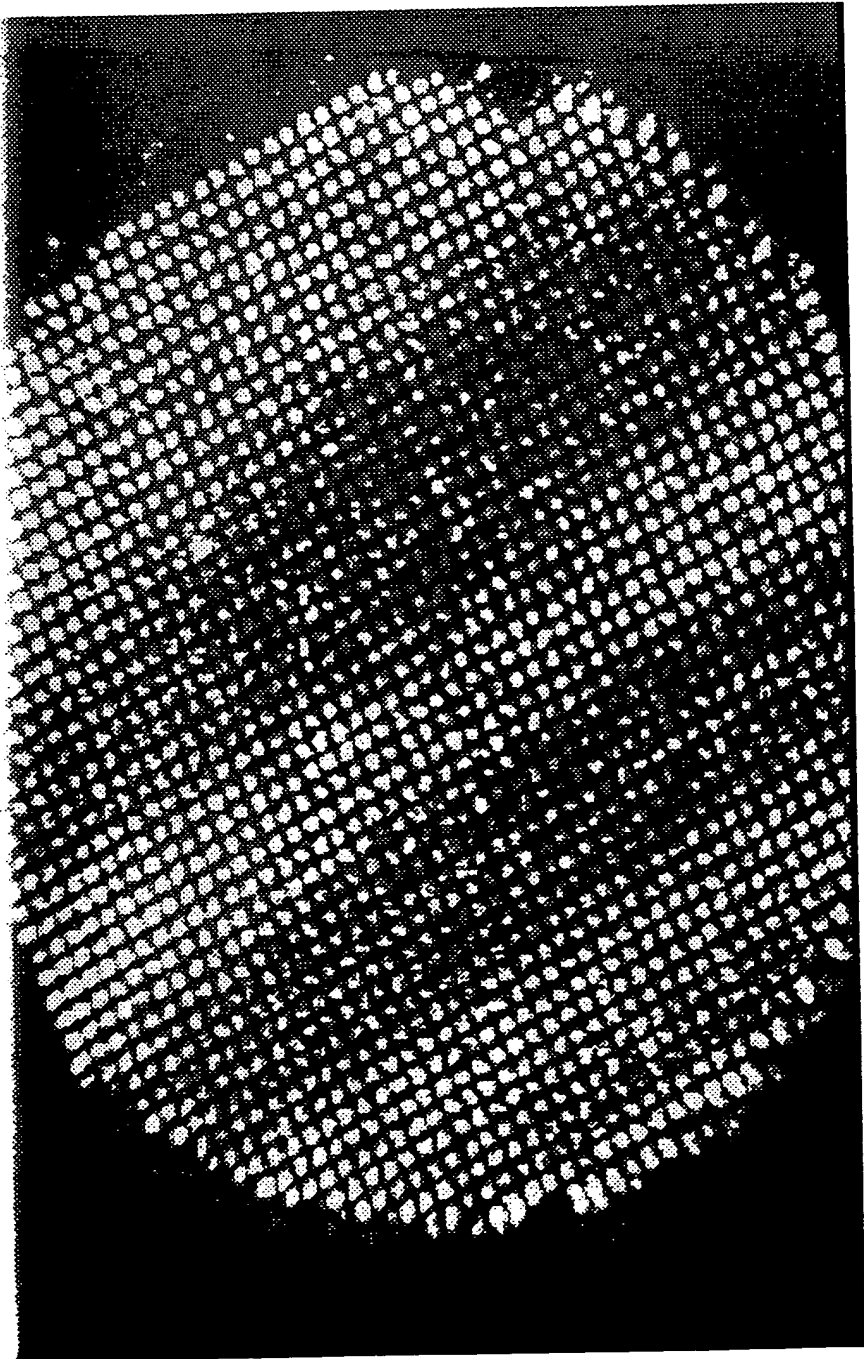
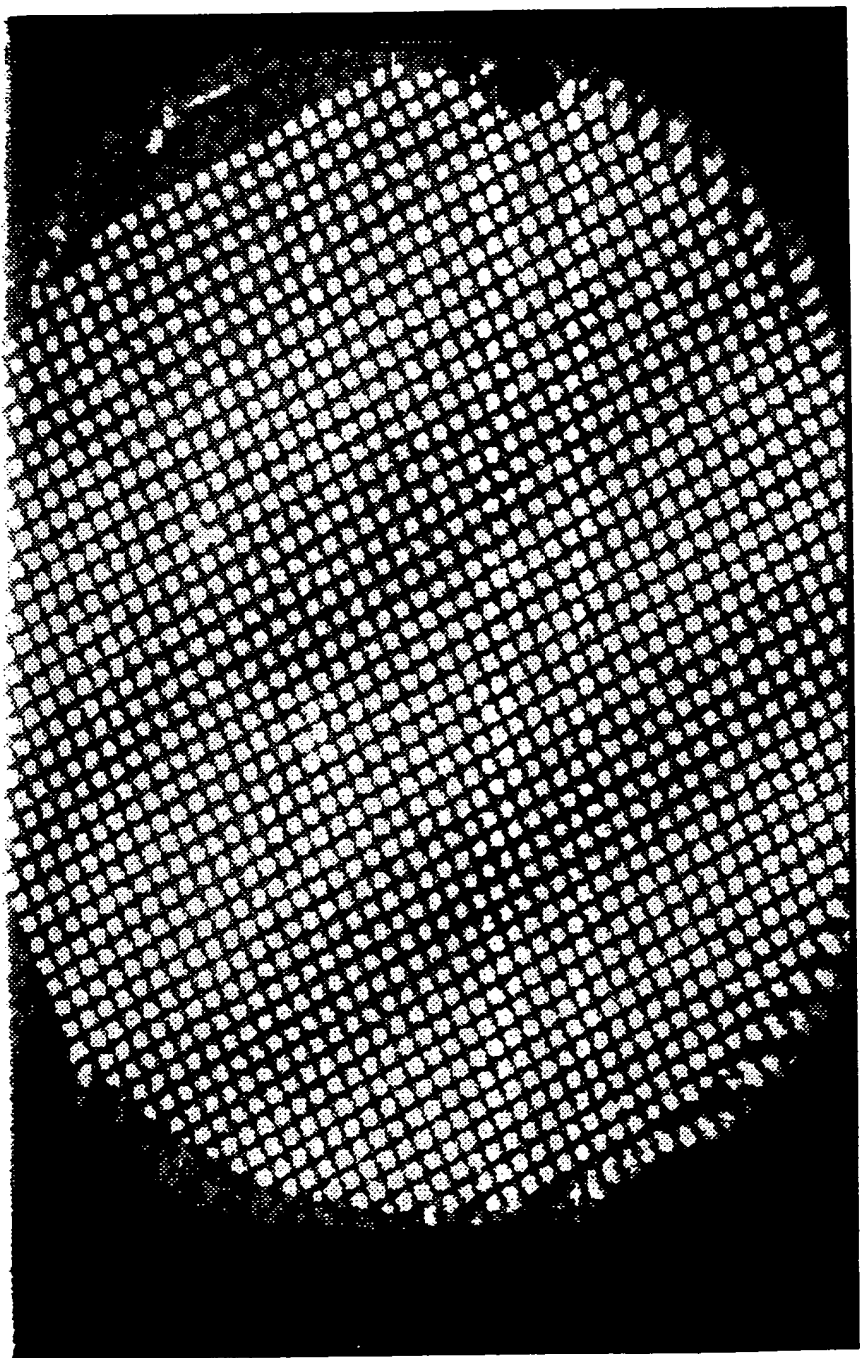
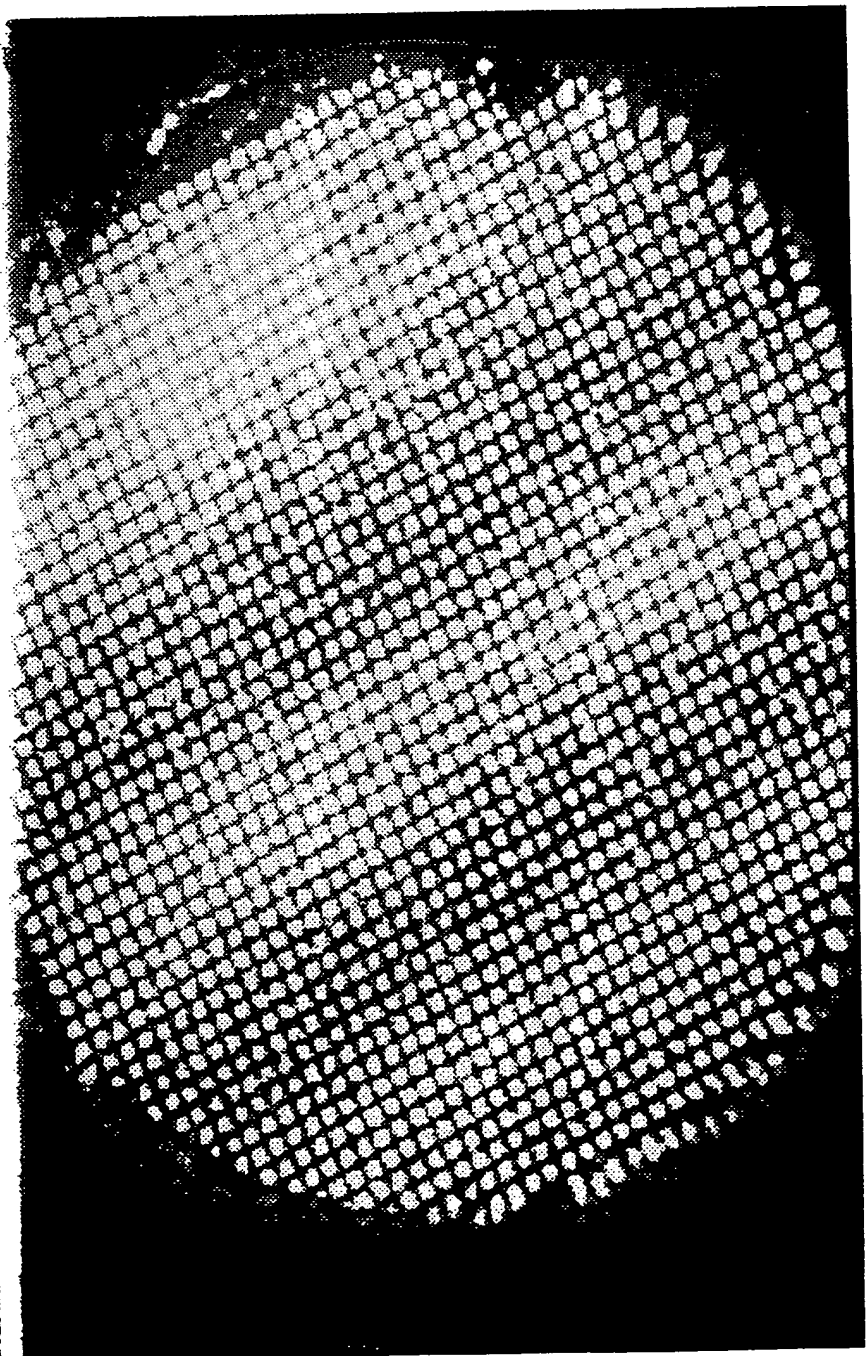
[illegible]

Figure 12



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Figure 13



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This graph shows the relationship between the electric field strength (ESD) and the applied electric field (V/micron) for two different samples, labeled 1500 and 1501. The y-axis represents ESD in units of $/\text{cm}^2$ on a logarithmic scale, ranging from $1.00\text{E}+02$ to $1.00\text{E}+06$. The x-axis represents the Field in V/micron, ranging from 0 to 20. Sample 1500 is represented by a line with square markers, and Sample 1501 is represented by a line with diamond markers. Both samples show a sharp increase in ESD as the field increases, with Sample 1500 reaching a higher ESD value than Sample 1501 at the same field strength.

Field (V/micron)	ESD ($/\text{cm}^2$) - Sample 1500	ESD ($/\text{cm}^2$) - Sample 1501
6.5	$1.00\text{E}+03$	-
7.0	$1.00\text{E}+04$	-
7.5	$1.00\text{E}+05$	-
8.0	$1.00\text{E}+05$	$1.00\text{E}+03$
8.5	$1.00\text{E}+05$	$1.00\text{E}+03$
9.0	$1.00\text{E}+05$	$1.00\text{E}+03$
9.5	$1.00\text{E}+05$	$1.00\text{E}+03$
10.0	$1.00\text{E}+05$	$1.00\text{E}+03$
10.5	$1.00\text{E}+05$	$1.00\text{E}+03$
11.0	$1.00\text{E}+05$	$1.00\text{E}+03$
11.5	$1.00\text{E}+05$	$1.00\text{E}+03$
12.0	$1.00\text{E}+05$	$1.00\text{E}+03$
12.5	$1.00\text{E}+05$	$1.00\text{E}+03$
13.0	$1.00\text{E}+05$	$1.00\text{E}+03$
13.5	$1.00\text{E}+05$	$1.00\text{E}+03$
14.0	$1.00\text{E}+05$	$1.00\text{E}+03$
14.5	$1.00\text{E}+05$	$1.00\text{E}+03$
15.0	$1.00\text{E}+05$	$1.00\text{E}+03$
15.5	$1.00\text{E}+05$	$1.00\text{E}+03$
16.0	$1.00\text{E}+05$	$1.00\text{E}+03$
16.5	$1.00\text{E}+05$	$1.00\text{E}+03$
17.0	$1.00\text{E}+05$	$1.00\text{E}+03$
17.5	$1.00\text{E}+05$	$1.00\text{E}+03$
18.0	$1.00\text{E}+05$	$1.00\text{E}+03$
18.5	$1.00\text{E}+05$	$1.00\text{E}+03$
19.0	$1.00\text{E}+05$	$1.00\text{E}+03$
19.5	$1.00\text{E}+05$	$1.00\text{E}+03$
20.0	$1.00\text{E}+05$	$1.00\text{E}+03$

The Government of the United States of America, by the President, do hereby certify that the following is a true and correct copy of the original document on file in the Department of the Interior:

Emission Site Density vs Current Density

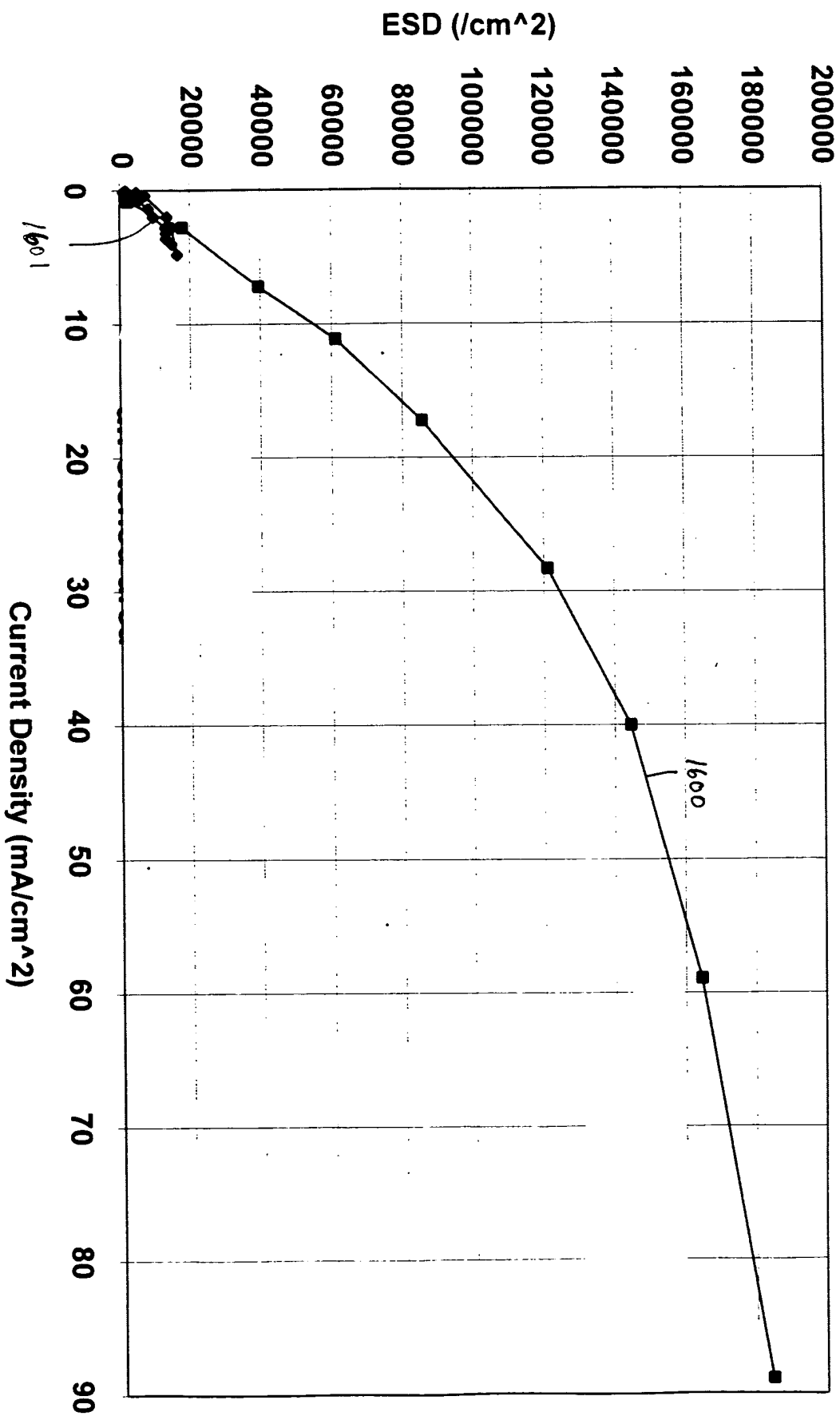


Figure 6

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